

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P259505

Luminaire Tested: **22CZ-LD5-24-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24-S-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2334.0 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

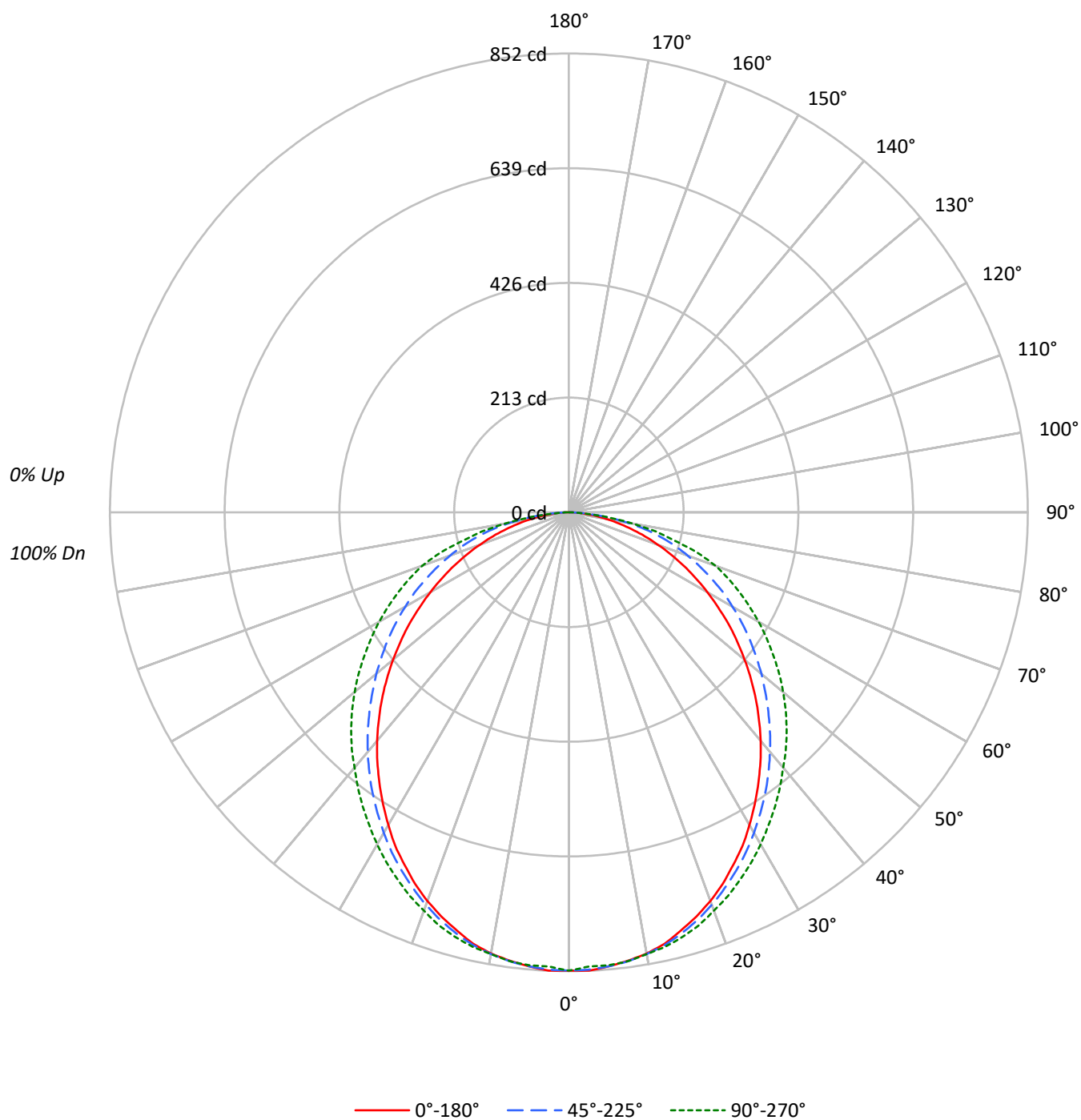
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	91	88		90	87	85
2	99	90	83	77	96	88	82	77		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	78	70	64		75	68	63		72	66	62		69	64	60
4	82	70	61	54	80	69	61	54		66	59	53		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		56	50	45
6	70	56	47	41	68	56	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	36		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	34	29		39	33	29
10	53	40	32	26	52	39	32	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2290	2290	2290
5°	2286	2286	2280
10°	2273	2276	2276
15°	2239	2255	2274
20°	2199	2222	2254
25°	2144	2180	2233
30°	2083	2135	2212
35°	2014	2088	2191
40°	1945	2040	2174
45°	1869	1992	2176
50°	1783	1953	2173
55°	1699	1920	2172
60°	1599	1889	2190
65°	1499	1863	2220
70°	1385	1843	2275
75°	1248	1830	2110
80°	1094	1703	1841
85°	898	1281	1142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	3.4
10°-20°	228.3	9.8
20°-30°	339.0	14.5
30°-40°	399.1	17.1
40°-50°	406.8	17.4
50°-60°	366.9	15.7
60°-70°	289.0	12.4
70°-80°	178.3	7.6
80°-90°	46.3	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	647.6	27.7
0°-40°	1046.7	44.8
0°-60°	1820.4	78.0
0°-90°	2334.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2334.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	846	848	846	845	844	80
15°	804	807	809	814	816	227
25°	722	726	734	747	752	333
35°	613	620	636	656	667	384
45°	491	499	524	555	572	378
55°	362	374	409	446	463	323
65°	235	252	293	330	349	233
75°	120	140	176	196	203	128
85°	29	37	42	39	37	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	850.9	850.9	850.9	850.9	850.9
2.5°	852.0	852.0	849.8	847.5	844.2
5°	846.4	847.5	846.4	845.3	844.2
7.5°	839.7	840.8	840.8	840.8	840.8
10°	831.8	832.9	832.9	832.9	832.9
12.5°	820.6	821.7	822.9	824.0	826.2
15°	803.8	807.2	809.4	813.9	816.1
17.5°	787.0	790.3	793.7	799.3	803.8
20°	767.9	770.2	775.8	782.5	787.0
22.5°	746.6	750.0	755.6	764.6	771.3
25°	722.0	726.4	734.3	746.6	752.2
27.5°	698.4	701.8	711.9	725.3	733.2
30°	670.4	674.9	687.2	704.0	711.9
32.5°	642.4	648.0	661.4	680.5	689.4
35°	613.2	619.9	635.6	655.8	667.0
37.5°	584.1	590.8	608.7	631.2	643.5
40°	553.8	560.5	580.7	605.4	618.8
42.5°	522.4	530.3	552.7	580.7	596.4
45°	491.0	498.9	523.5	554.9	571.7
47.5°	458.5	467.5	494.4	529.1	546.0
50°	426.0	436.1	466.4	502.2	519.0
52.5°	393.5	404.7	437.2	474.2	492.1
55°	362.1	374.4	409.2	446.2	463.0
57.5°	328.5	343.0	380.0	415.9	435.0
60°	297.1	312.8	350.9	386.8	406.9
62.5°	265.7	282.5	322.9	358.7	377.8
65°	235.4	252.2	292.6	329.6	348.6
67.5°	205.2	224.2	263.4	300.4	319.5
70°	176.0	196.2	234.3	270.2	289.2
72.5°	148.0	168.2	206.3	239.9	251.1
75°	120.0	140.1	176.0	196.2	202.9
77.5°	94.2	113.2	144.6	156.9	165.9
80°	70.6	87.4	109.9	117.7	118.8
82.5°	48.2	62.8	76.2	77.4	76.2
85°	29.1	37.0	41.5	39.2	37.0
87.5°	13.5	14.6	13.5	9.0	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)